Startup IXP Equipment Specifications

REQUIRED EQUIPMENT

Equipment	Qty	Specifications
Peering Switch	2	48 10/100/1000 RJ45 Ethernet ports 4 SFP 1Gbps Ports Rack Mount kit Managed Switch with SNMPv2 support Mac Address Filtering Support Link Aggregation Control Protocol (LACP) Support IEEE 802.1Q VLAN Support SFLOW or Port Mirroring Support Jumbo frame and IPv6 Jumbogram support
Server	2	Quad Core processor At least 16 - 32GB RAM 2 x 500GB SATA 10,000 rpm Hard Disk RAID 1 Controller 4 x 1Gbps Ethernet interfaces 2 x Power Supply Units (80 Plus Certified) DVD ROM/Writer USB 2.0/3.0 ports 1U form factor Rack mount kit

NECESSARY EQUIPMENT

Management Router	1	4 x 10/100/1000 Ethernet Interfaces BGP, OSPF, ISIS Support IPv6 Routing Support
Management Switch	1	48 10/100/1000 RJ45 Ethernet ports

		4 SFP 1Gbps Ports Rack Mount kit Managed Switch with SNMPv2 support Mac Address Filtering Support Link Aggregation Control Protocol (LACP) Support IEEE 802.1Q VLAN Support SFLOW or Port Mirroring Support Jumbo frame and IPv6 Jumbogram support
Management Server	2	- Rack mount 1 U or max of 2U - 2 Socket Processor board - At least 1 x Intel® Xeon® E5-26XX v3 series, 8 Core or higher - At least 16GB RAM (2 x 8) - Chassis with at least 4 Hot Plug Hard Drives 3.5” or 2.5” (SAS or SATA) - 4 x 1TB 7.2K RPM SATA 6Gbps 3.5"/2.5" Hot-plug Hard Drive - Raid Controller to support Raid 0, 1, 5 - DVD+/-RW, SATA, Internal - At least 4 x 1Gb Network interface card - Out-of-band Management Card with dedicated or shared NIC - Dual, Hot-plug, Redundant Power Supply (less than 600W per power su - Rack mount Rails - No operating system - 3 year basic Warranty
		OPTIONAL EQUIPMENT
Equipment Rack	2	42U Server rack measuring at least 600 mm (wide) x 800 mm (depth)
UPS/Power Backup	1	Power Backup to provide 4 - 6hrs backup time of existing IXP power load
Airconditioning	1	The AC capacity should be calculated using the formula; *Total Heat Load = Room Area BTU + Windows BTU + Equipment BTU + Lig* Room Area BTU = Length (m) x Width (m) x 337

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Windows BTU = Length (m) x Width (m) x 870
Equipment BTU = Total wattage x 3.5
Lighting BTU = Total wattage x 4.25

Structured Cabling	LOT	Measured and catered based on the size and type of Facility

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Comment

This Serve the IXP Peering LAN for members to interconnect to each other. Two (2) are required for redundancy

The 2 servers will act as redundant Route-Servers for the IXP and provide basic services.

Basic Services include email, web, statistics, etc

The servers will be virtualised for optimal use

Additional ethernet interfaces may be necessary

To provide (Transit) Internet Access to IXP Tool/Resources such as email, stats, website, etc.

The IXP Services LAN (Mail server, Webserver, Stats, etc) and Transit Router are connected on this switch.

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S or SATA)

er power supply)

This depend on the location of the IXP. If the IXP is going to an existing data-center then some MAY not be necessary

power load

nt BTU + Lighting BTU